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CR-146157

SECOND QUARTERLY (TYPE II) PROGRESS REPORT

Project Title: Development of a Multi-disciplinary
ERTS User Program in the State of Ohio
Ref. 20900

Contract Number: NAS5-22399

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(E76-10148) DEVELOPMENT OF A
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Prepared for

GODDARD SPACE FLIGHT CENTER
Greenbelt, Maryland 20771

A. Problems - The only problem at this point are delays in receiving computer compatible tapes for the scenes ordered November 5, 1975, from the EROS Data Center. At this point, two scenes have been received, Scene 82100-15415 and Scene 82100-15422.

B. Accomplishments - All sub-contracts have now been approved and signed.

Preparation of schedules and management plans are now in their final stages. Two major efforts in planning the implementation of the sub-contracts is now underway. The first is a plan to establish Landsat land use training teams for the generation of training set information to transmit to Bendix Aerospace Corporation for training the MDAS Multispectral Data Analysis System in order to produce the Statewide Land Use Inventory. Basically, the training team consists of two groups - a travelling group consisting of three members experienced in land use classification systems, the Bendix Multispectral Data Analysis System, and a training specialist. A second part of the group will consist of area people familiar with land use in the area and in the planning process which will eventually involve the land use inventory. The combination of the two groups, one group providing consistency across the state and remote sensing technology expertise and the second being familiar with each area should provide a sound land use training team.

The second effort involves the work with Battelle Columbus Laboratories to develop products useful in state resource management programs and provide user awareness. Most of the project effort expended to date has gone into internal program planning. The results of these internal discussions will culminate in the preparation of draft DELTA and GANTT charts which when coordinated with and approved by the Department of Economic and Community Development will provide framework for specific

task activities. As currently visualized, the program development plan will consist basically of three steps or phases. Phase I General Program Definition and Preparation, Phase II Specific Task Activities, Phase III Results, Summary and Significance. Phase I, which is primarily a pre-analysis step will cover the following activities:

- . identify application teams for each task
- . interact with users to identify current priorities/data needs and products
- . complete specialized state of the art analysis.

Phase II will involve more specific identification of the technical objectives, technical and user activities, and products associated with each task. Phase III will focus on defining and implementing the methodology for: (1) demonstrating Landsat data use options to potential user groups, and (2) obtaining the necessary feedback from the users relative to data usefulness and/or limitations.

A third activity in the Landsat program is the development of a land use change model which will utilize Landsat land use information as an input. It is expected that Landsat scene from 1972 and 1975 will be utilized to classify the land use in each of those years and produce a land use change which will be input to the model. Several problems appear on the horizon in this effort and at this time discussion and thought is going in to solving of those problems.

C. Significant Results - None at this time.

D. Publications - None.

E. Recommendations - None at this time.

F. Funds Expended - As of November 30, 1975 the total of funds expended is \$4068. Most, \$4038, of which was for salary and fringe benefits and \$30 for transportation.

G. Data Use -

	Value of Data Allowed	Value of Data Ordered	Value of Data Received
Landsat	\$16,700	\$2,160	\$1,968
CCT	\$ 5,600	\$1,600	0
Aircraft	\$ 1,008	\$ 534	\$ 534

H. Aircraft Data - Data was collected over Ohio on August 18, 1975 in partial fulfillment of the contract data requirements. After reviewing the Flight Summary Report all 89 frames of the data were ordered even though data over the Cleveland area were not satisfactory due to cloud cover. This decision was made due to the pricing policy of the EROS Data Center. The data over the remaining areas was very good based on a "quick look".